



Origami WITH Dollar Bills

Another Way to Impress
People With Your Money!

By Duy Nguyen

A spiral-bound notebook with a yellow cover. The background of the notebook is a collage of US dollar bills, including one-dollar bills and a five-dollar bill. The text is printed in a dark, serif font. The title is "ORIGAMI with DOLLAR BILLS:" and the subtitle is "Another Way to Impress People with Your Money".

ORIGAMI with DOLLAR BILLS:

Another Way to Impress People with Your Money

The background of the book cover is a collage of US dollar bills, primarily one-dollar bills, showing the Great Seal and the word "ONE". A silver spiral binding runs horizontally across the middle of the cover.

ORIGAMI with DOLLAR BILLS:

Another Way to Impress People with Your Money

by Duy Nguyen



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INTRODUCTION

Origami with Dollar Bills: Another Way to Impress People with Your Money offers a unique twist to traditional origami projects. Using a dollar bill instead of conventional origami paper, you don't have to look further than your wallet and beyond your hands in order to create 15 fabulous origami objects. The projects, ranging from a horseshoe crab, to a Jedi, to an oriental dragon are fun and clever and are guaranteed to amaze everyone. Although some of the projects are more challenging than others, with a bit of patience and practice, without a doubt you will soon master them.

To make the folds that are mentioned in the step-by-step instructions of each project, refer to the Basic Folds section, pages 9-12. The origami projects are arranged according to how many dollar bills you will need. Beginning on page 13, the first six projects use only one dollar bill and don't involve any attachments. But don't be fooled, they still require some very intricate folding. The following six projects, starting on page 35, are made by attaching two parts—each made from a dollar—together, while the last three origami objects, from page 63 on, consist of three attachments made from single dollar bills. Don't worry, it's not necessary to cut, glue, tape, or deface the currency in any way so you won't be committing vandalism!

Throughout *Origami with Dollar Bills*, you will learn amazing facts about United States currency and its rich history, so to speak: from how many times a dollar bill can be folded before tearing, to how many dollar bills stacked together equal a mile, to why only green ink is used. For more great information and fascinating trivia about United States currency, check out the Bureau of Engraving and Printing's website, www.moneyfactory.com.

So, have a little fun and at the same time exercise your mind and your fingers using *Origami with Dollar Bills*. And don't forget to show the world what money can really do!

BASIC FOLDS & SYMBOLS

Fold Line

Mountain Fold Line

Hidden Fold Line

Fold in This Direction

Turn Over or Rotate

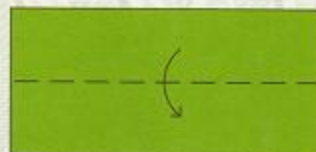
Fold Then Unfold

Pleat Fold

Crease Line



VALLEY FOLD



1. Fold along the dotted line

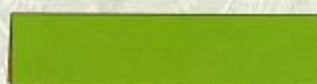


2. Completed Valley Fold

MOUNTAIN FOLD



1. Fold to the back



2. Completed Mountain Fold

INSIDE REVERSE FOLD



1.



2. Completed Inside Reverse Fold

OUTSIDE REVERSE FOLD



1.



2. Completed Outside Reverse Fold

PLEAT FOLD



1. Valley folds



2. Valley fold



3. Pleat Fold

PLEAT FOLD REVERSE



1. Valley folds



2. Valley fold



3. Pleat Fold Reverse

INSIDE CRIMP FOLD



1. Pull and fold



2. Inside Crimp Fold

OUTSIDE CRIMP FOLD



1. Unfold



2. Pull and fold



3. Outside Crimp Fold



ONE DOLLAR OBJECTS

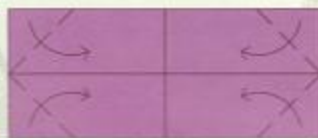
SEA LION



1. Valley fold in half and unfold



2. Repeat



3. Valley folds



4. Turn over to the other side



5. Valley folds



6. Repeat



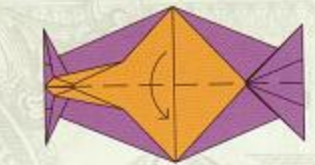
7. Valley fold



8. Repeat



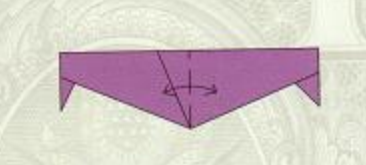
9. Valley folds and squash folds



10. Valley fold in half



11. Valley fold and unfold



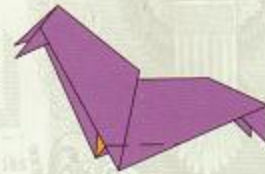
12. Repeat



13. Crimp fold along the creased line



14. Inside reverse fold



15. Valley fold both sides



16. Valley fold both sides

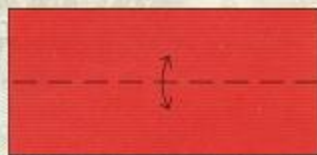


17. Valley fold to turn head

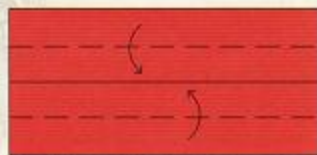


18. Completed Sea Lion

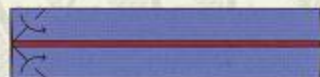
KLINGON BIRD OF PREY



1. Valley fold then unfold



2. Valley folds



3. Valley folds



4. Unfold



5. Pull and folds along the crease lines



6. Mountain fold



7. Turn over to the other side



8. Valley fold and squash fold



9. Valley fold



10. Valley fold and squash fold



11. Valley fold



12. Turn over to the other side



13. Valley fold



14. Valley fold



15. Mountain fold in half



16. Valley folds



17. Valley folds



18. Inside reverse fold



19. Inside reverse fold



20. Mountain folds both sides



21. Inside reverse fold



22. Valley folds to level



23. Valley folds to level both wings



24. Completed Klingon Bird of Prey

ELECTRIC EEL



1. Start with one dollar bill; fold in half and unfold



2. Valley folds



3. Valley fold



4. Repeat



5. Valley fold



6. Valley fold and hide behind layer



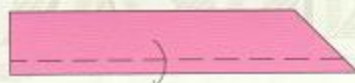
7. Valley fold

8. Valley fold (a)
and mountain fold (b)

9. Valley fold



10. Turn over to the other side



11. Valley fold



12. Mountain fold



13. Valley fold in the direction of the arrow



14. Valley fold and hide behind layer



15. Valley fold



16. Valley fold



17. Turn over to the other side



18. See close-up for more details



19. Crimp folds



20. Pull down as shown



21. Valley folds



22. Valley folds



23. Valley fold



24. Turn over



25. Valley fold



26. Valley fold



27. Pleat fold



28. Valley fold



29. Press and pull firmly at the bended parts to form a curve



30. Completed Electric Eel



FUN FACTS ABOUT DOLLAR BILLS

\$ You can double fold (first forward and then backwards) a bill 4000 times before it will tear.

\$ Green with Envy: Green ink was originally used in the mid-1800s to deter counterfeiters from photographing currency—then photographs were only black and white. Green ink continued to be used for several reasons. First, a special formula had been developed that was highly resistant to chemical and physical changes. Second, it was plentiful. And third, psychologically, green was identified with a strong and stable Government.

\$ A bill is 25% linen and 75% cotton.

\$ Bills are made using a process called intaglio printing, which creates the effect of a slightly raised front and a slightly indented back. Each of the Bureau of Engraving's 24 presses, located in Fort Worth, Texas and Washington, D.C., is capable of printing over 8,000 sheets per hour.

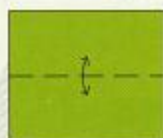
\$ Together, the Fort Worth, Texas and Washington D.C. presses use 18 tons of ink, per day.

\$ Have you ever wanted your picture on a dollar bill? Well, not in your lifetime! No, seriously, after the Chief of the Bureau of Engraving and Printing, L.M. Clark, selected his own visage to appear on a 50-cent note, there was so much uproar that an act of Congress prohibiting the use of portraits of any living persons, was passed on April 7, 1866.

HORSESHOE CRAB



1. Valley fold in half



2. Valley fold and unfold



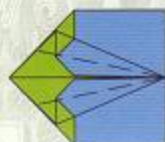
3. Inside reverse folds



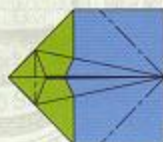
4. Valley folds



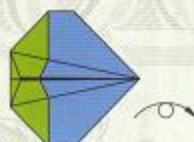
5. Valley fold



6. Repeat



7. Mountain folds



8. Turn over



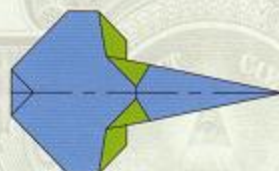
9. Mountain fold



10. Rotate and turn over



11. Swing over flap, allowing squashes to form



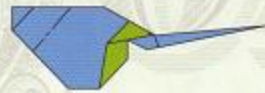
12. Mountain fold



13. Crimp fold



14. Mountain fold both sides



15. Inside reverse fold



16. Completed Horseshoe Crab

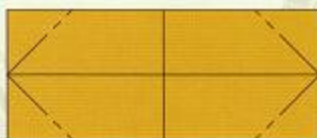
PHOENIX



1. Valley fold and unfold



2. Repeat



3. Mountain folds



4. Valley folds



5. Valley fold in half



6. Valley fold and unfold



7. Valley fold and unfold



8. Crimp fold



9. Valley fold and unfold



10. Repeat



11. Crimp fold



12. Valley folds



13. Inside reverse fold



14. Squash folds



15. Crimp fold



16. Inside reverse fold

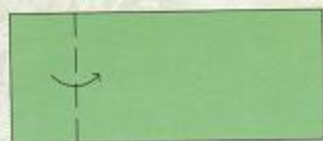


17. Rotate



18. Completed Phoenix

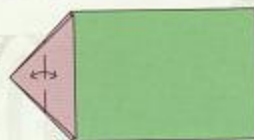
VAMPIRE BAT



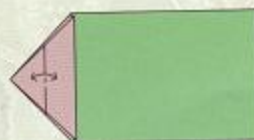
1. Valley fold



2. Inside reverse folds



3. Valley fold and unfold



4. Sink



5. Mountain folds



6. Valley folds and hide

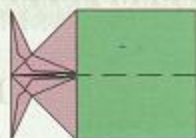


7. Mountain fold



8. Valley folds

9. Valley fold in half



10. Crimp fold



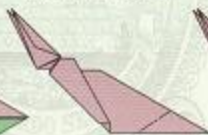
11. Crimp fold



12. Inside reverse fold



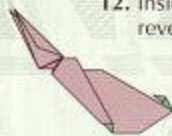
13. Repeat



14. Mountain folds



15. Valley folds



16. Insert wing sides into each other; rotate model



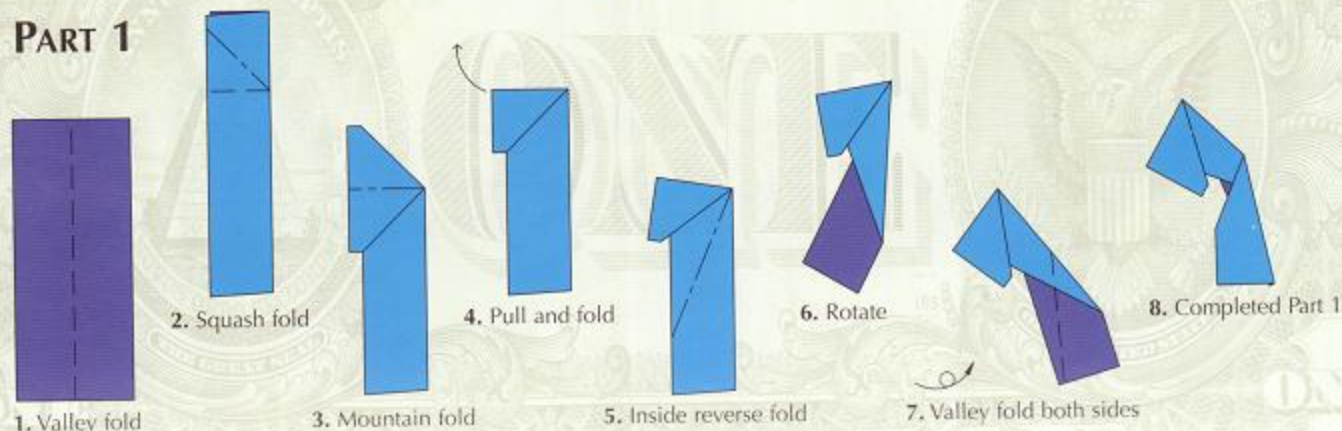
17. Completed Vampire Bat

TWO DOLLAR OBJECTS

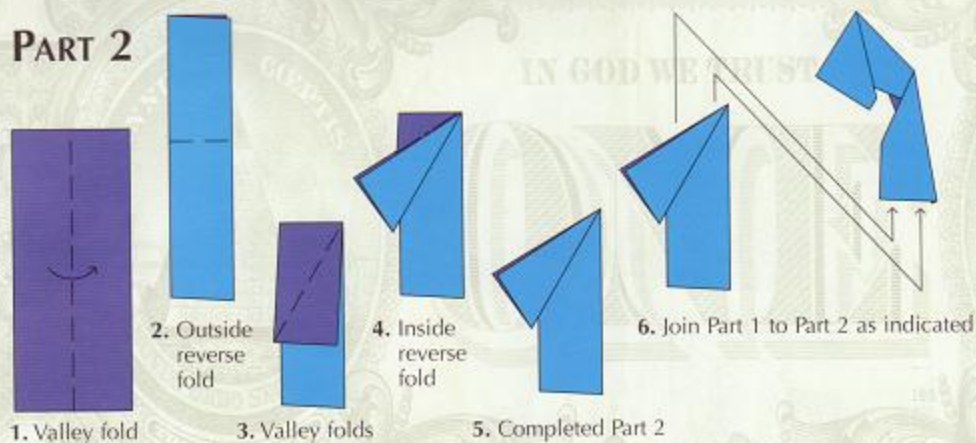


JEDI

PART 1



PART 2



7. Completed Jedi

FUN FACTS ABOUT DOLLAR BILLS

\$ Of the notes printed each year, 95% are used to replace notes already in circulation. 45% of the notes printed are \$1 bills.

\$ The \$2 bill first was authorized by the Continental Congress on June 25, 1776, over a week before the Declaration of Independence was signed, but Thomas Jefferson's portrait did not appear on the bill until 1928. A special \$2 bill was commissioned in 1976 to celebrate the United States Bicentennial. On the back of the bill, an engraving of John Trumbull's painting, "The Signing of the Declaration of Independence" replaced the image of Monticello that had appeared on the bill since 1963.

\$ A pound of currency would include 454 bills, regardless of denomination. Each note weighs one gram.

\$ If each bill ever printed was laid end to end, they would stretch around the equator about 24 times.

\$ From studying old manuscripts, historians suspect that the "\$" came about by writing "S" over "P" for the Spanish peso or pieces of eight, their currency. This symbol was widely accepted before the adoption of the United States dollar in 1785.

TIGER SHARK

PART 1



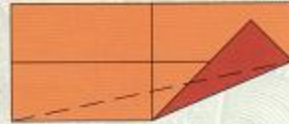
1. Valley fold and unfold



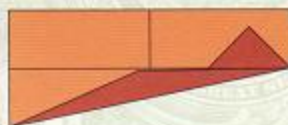
2. Valley fold and unfold



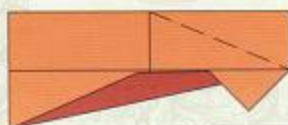
3. Valley fold



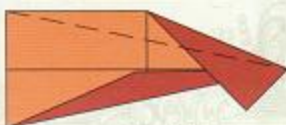
4. Valley fold



5. Valley fold



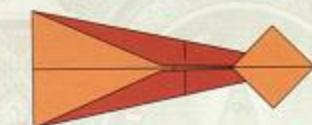
6. Valley fold



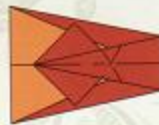
7. Valley fold



8. Valley fold



9. Valley fold



10. Crimp folds and valley fold in half



11. Outside reverse fold



12. Pleat folds both sides



13. Valley fold both the front and back



14. Repeat



15. Completed Part 1

PART 2



1. Valley fold and unfold



2. Valley fold



3. Valley fold



4. Valley fold



5. Valley fold



6. Valley fold in half



7. Outside reverse fold



8. Valley fold both sides



9. Inside reverse fold



10. Inside reverse fold



11. Repeat



12. Inside reverse fold



13. Inside reverse fold



14. Repeat

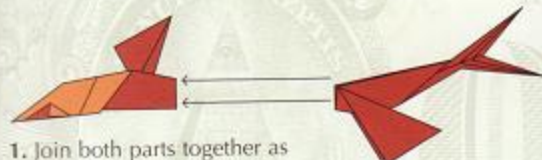


15. Valley fold



16. Completed Part 2

ATTACHMENT



1. Join both parts together as indicated by the arrows



2. Press firmly at the tail bend to ensure the attachment of both parts



3. Completed Tiger Shark

PART 1

SQUID



1. Valley fold in half



2. Valley fold and unfold



3. Inside reverse folds



4. Pull and fold



5. Squash folds



6. Inside reverse folds



7. Repeat



8. Pull and fold



9. Completed Part 1 of Squid

PART 2



1. Valley fold and unfold



2. Repeat



3. Mountain folds



4. Valley folds



5. Valley fold



6. Valley fold



7. Layer insert



8. Turn over

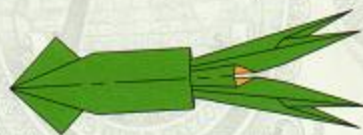


9. Completed Part 2

ATTACHMENT



1. Insert Part 1 into opening of Part 2 as indicated



2. Mountain fold and unfold



3. Completed Squid

Fruit Bat

PART 1



1. Valley folds and unfolds



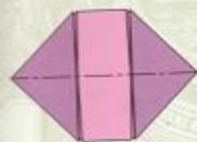
2. Valley folds and unfolds



3. Valley folds



4. Inside reverse folds



5. Mountain fold



6. Inside reverse fold



7. Valley fold



8. Repeat



9. Squash fold



10. Valley fold



11. Repeat



12. Squash fold



13. Valley fold



14. Valley fold



15. Valley folds



16. Mountain folds



17. Inside reverse

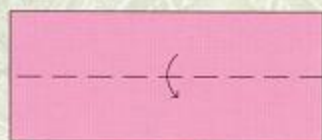


18. Outside reverse



19. Completed Part 1

PART 2



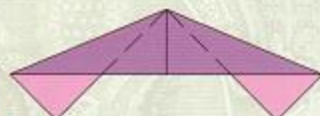
1. Valley fold in half



2. Valley fold and unfold



3. Inside reverse folds



4. Valley folds



5. Turn over to the other side



6. Pleat folds



7. Completed Part 2

ATTACHMENT



1. Valley fold



2. Turn over to the other side



3. Insert as indicated



4. Valley fold



5. Valley folds



6. Completed Fruit Bat

FUN FACTS ABOUT DOLLAR BILLS

\$ The Bureau of Engraving and Printing produces 37 million notes a day, with a face value of approximately \$696 million.

\$ The lifespan of a bill depends on its denomination: A \$1 bill, lasting for approximately 22 months, tends to die young, while \$50 and \$100 bills have the longest existence, with a survival rate of approximately nine years. On average, a \$20 bill will make it through one presidential term, four years, whereas \$5 bills last half of that. The life of the \$10 bill is approximately three years.

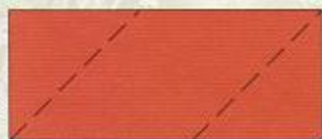
\$ Each bill has a thickness of .0043 inches; a stack of bills one mile high would contain over 14 million currency notes.

\$ So why do only people and places appear on currency? As a government agency, the Bureau of Engraving and Printing cannot endorse and thus reproduce the likeness of any commercial product or firm. But what about the four automobiles on the back of the \$10 bill that are supposed to be Model "T's"? While nothing says American pride more than Ford, the cars are of no specific make or model; rather, they are composites of cars produced in the 1920s, when the vignette was completed.

\$ It costs approximately 4.2 cents to produce each bill.

PART 1

EUROPEAN DRAGON



1. Valley folds



2. Valley fold and unfold



3. Valley folds



4. Valley folds



5. Valley fold



6. Crimp fold



7. See blow-up for more details



8. Crimp fold



9. Valley fold



10. Valley folds



11. Outside reverse



12. Zoom out



13. Inside reverse fold



14. Mountain fold



15. Repeat



16. Completed Part 1

PART 2



1. Valley fold in half



2. Valley fold and unfold



3. Inside reverse folds



4. Valley folds



5. Turn over to the other side



6. Valley folds



7. Mountain fold in half



8. Completed Part 2

ATTACHMENT



1. Join both parts together as shown



2. Valley fold as indicated



3. Valley fold both sides



4. Completed European Dragon

PART 1

EAGLE



1. Valley fold



2. Inside reverse folds



3. Valley fold and unfold



4. Sink



5. Valley fold



6. Valley fold and unfold



7. Valley fold



8. Repeat



9. Valley fold



10. Valley fold



11. Repeat



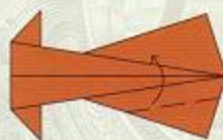
12. Valley fold



13. Valley fold



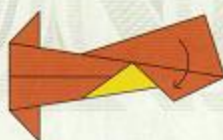
14. Turn over



15. Valley fold



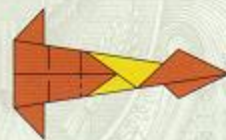
16. Repeat



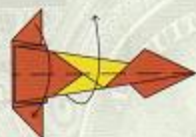
17. Valley fold



18. Valley fold



19. Pleat fold



20. Valley fold in half



21. Valley folds



22. Valley folds



23. Inside reverse folds



24. Inside reverse folds



25. Crimp fold



26. Valley folds



27. Outside reverse fold



28. Valley folds



29. Completed Part 1

PART 2



1. Valley fold and unfold



2. Valley fold



3. Valley fold



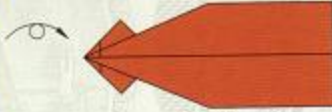
4. Repeat



5. Valley fold



6. Turn over



7. Valley fold



10. Crimp folds



11. Inside reverse fold



12. Completed Part 2

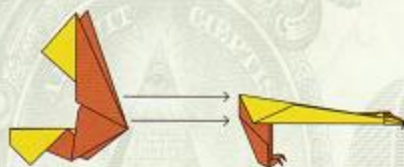


8. Valley fold

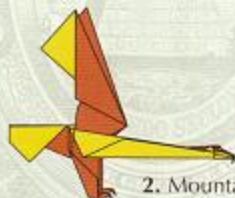


9. Outside reverse fold

ATTACHMENT



1. Insert Part 2 into Part 1 as indicated



2. Mountain fold both sides



3. Completed Eagle

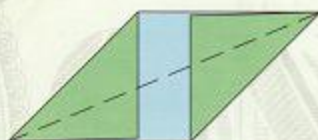
THREE DOLLAR OBJECTS

PART 1

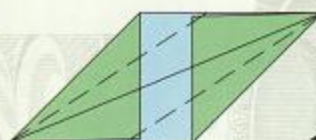
ROGER'S RABBIT



1. Valley folds



2. Valley fold and unfold



3. Valley folds



4. Valley folds



5. Valley fold



6. Rotate



7. Valley folds



8. Valley folds



9. Mountain folds



10. Turn over



11. Valley folds



12. Pleat fold



13. Completed Part 1

PART 2



1. Valley folds



2. Inside reverse folds



3. Mountain fold top and valley folds the sides; repeat behind



4. Swing over a flap at each side



5. Valley fold; repeat behind



6. Valley fold;
repeat behind



7. Valley fold;
repeat behind



8. Valley fold;
repeat behind



9. Valley fold sides to
center; repeat behind



10. Swing over a
flap at each side



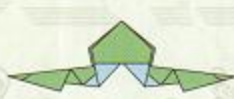
11. Inside reverse folds



12. Valley folds



13. Valley folds



14. Valley folds



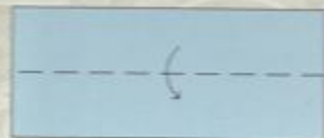
15. Mountain folds



16. Completed Part 2



PART 3



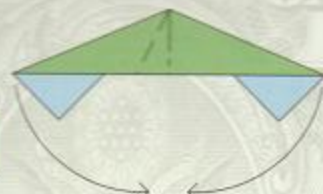
1. Valley fold in half



2. Valley fold and unfold



3. Inside reverse folds



4. Pull and fold



5. Squash fold;
repeat behind



6. See blow-up



7. Pull and fold



8. Valley fold

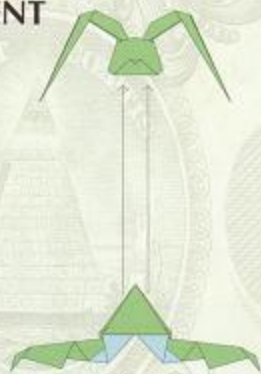


9. Zoom out

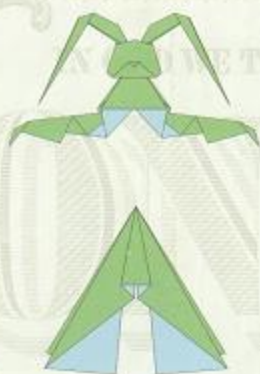


10. Turn over for completed Part 3

ATTACHMENT



1. Valley fold



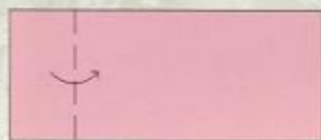
2. Completed First Attachment; now join with Part 3.



3. Completed Roger's Rabbit.

ORIENTAL DRAGON

PART 1



1. Valley fold



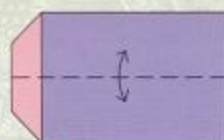
2. Inside reverse folds



3. Sink



4. Valley fold



5. Valley fold and unfold



6. Valley fold



7. Repeat



8. Valley fold



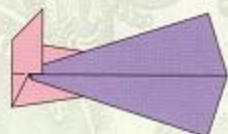
9. Valley folds



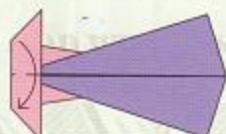
10. Repeat



11. Valley fold



12. Valley fold



13. Fold in half



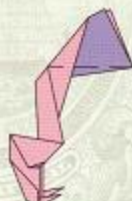
14. Valley fold both sides



15. Inside reverse fold



16. Repeat



17. Valley folds



18. Inside reverse



19. Outside reverse



20. Pull and folds



21. Completed Part 1



PART 2



1. Start with step 4 Part 1; then mountain fold



2. Valley fold both sides



3. Inside reverse folds



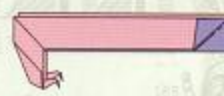
4. Inside reverse folds



5. Valley fold both sides



6. Valley fold both sides

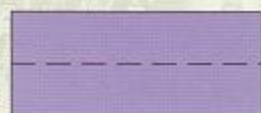


7. Inside reverse folds



8. Completed Part 2

PART 3



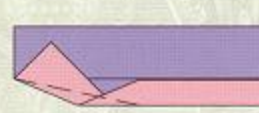
1. Valley fold and unfold



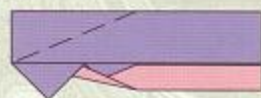
2. Valley fold



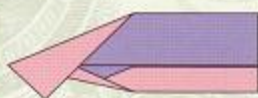
3. Valley fold



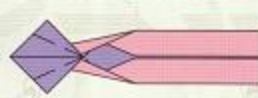
4. Repeat



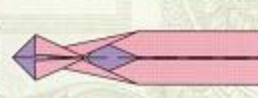
5. Valley fold



6. Repeat steps 3 to 4



7. Valley folds



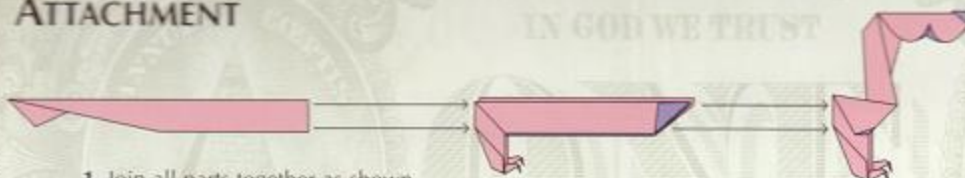
8. Fold in half



9. Completed Part 3



ATTACHMENT



1. Join all parts together as shown



2. Valley folds as indicated to help hold all parts together



3. Completed Oriental Dragon

FUN FACTS ABOUT DOLLAR BILLS

\$ The largest note ever printed by the Bureau of Engraving and Printing was the \$100,000 Gold Certificate, Series 1934. Printed for 3 weeks, from December 18, 1934 through January 9, 1935, they were not circulated among the general public but rather were used for transactions between Federal Reserve Banks.

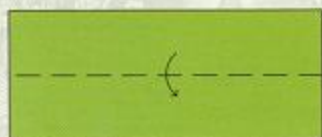
\$ Since 1969, the largest bill in circulation has been the \$100 bill.

\$ While Susan B. Anthony and more recently Sacagawea have appeared on the half-dollar and one-dollar coins, Martha Washington is the only woman whose portrait has appeared on a bill: First on the front of the \$1 Silver Certificate in 1886 and 1891 and then on the back of the \$1 Silver Certificate of 1896.

\$ If you had 10 billion \$1 bills, and spent one every second of every day, it would require 317 years for you to go broke. It would take a lot longer to make origami objects with those 10 billion bills.

PART 1

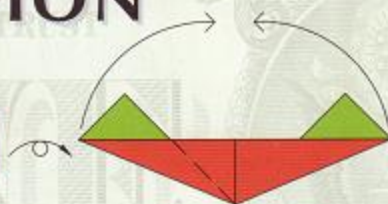
SCORPION



1. Valley fold in half



2. Inside reverse folds; turn over



3. Pull and fold



4. Squash folds; repeat behind



5. Folds and unfolds; repeat



6. Pull and folds; repeat behind



7. Valley fold; repeat behind



8. Inside reverse folds



9. Valley folds



10. Mountain folds



11. Squash folds



12. Completed Part 1

PART 2



1. Valley folds



2. Valley fold



3. Valley fold



4. Pleat folds



5. Completed Part 2

PART 3



1. Valley fold in half



2. Inside reverse



3. Push and fold

4. Pleat fold;
repeat behind5. Inside reverse fold;
repeat behind6. Repeat step 3;
repeat behind

7. Inside reverse



8. Rotate

9. Valley folds two
layers at each side;
repeat behind10. Valley fold;
repeat behind11. Hide behind layers;
repeat behind

12. Separate legs

13. Completed
Part 3

ATTACHMENT

1. Place Part 1 (reversed) onto Part 2;
valley folds as indicated and then
fold in half

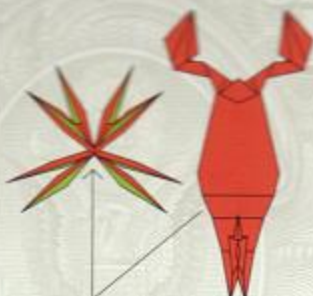
2. Rotate



3. Pull and folds

4. Outside
reverse fold

5. Crimp fold

6. Completed First
Attachment7. Place First
Attachment
on top of
Part 3 to
complete
Scorpion

INDEX

Eagle, 58

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European Dragon, 54

Fruit Bat, 48

Horseshoe Crab, 28

Jedi, 36

Klingon Bird of Prey, 17

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Phoenix, 30

Roger's Rabbit, 64

Scorpion, 76

Sea Lion, 14

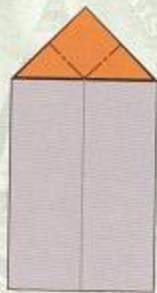
Squid, 45

Tiger Shark, 40

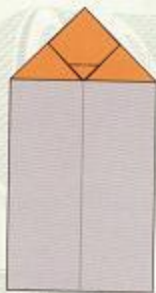
Vampire Bat, 33

STAR TREK

—PART ONE—



1. Start with the base fold. Inside reverse fold.



2. Mountain fold.



3. Turn over.



4. Valley folds.



5. Valley folds.



6. Pleat fold.



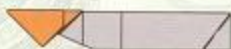
7. Fold in half.



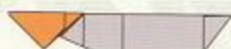
8. Rotate.



9. Mountain fold.



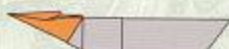
10. Valley fold.



11. Hide behind layer.



12. Level both sides.



13. Completed Part One.

STAR TREK

— PART TWO —



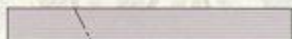
1. Valley folds.



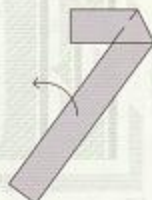
2. Fold in half and rotate.



3. Inside reverse fold.



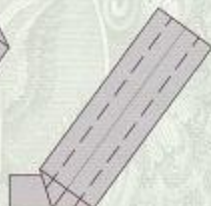
4. Valley fold.



5. Valley fold.



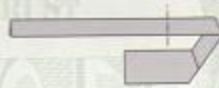
6. Valley folds.



7. Fold in half.



8. Outside reverse fold.



9. Outside reverse fold.



10. Mountain fold.



11. Valley fold.



12. Hide behind layer.



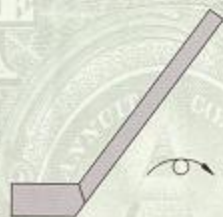
13. Valley fold.



14. Completed Part Two.

STAR TREK

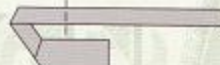
— PART THREE —



1. Start with step 7 of Part Two. Turn over.



2. Outside reverse fold.



3. Outside reverse fold.



4. Mountain fold.



5. Valley fold.



6. Hide behind layer.



7. Valley fold.

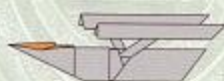


8. Completed Part Three.

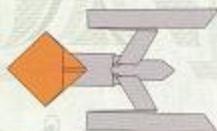
— ASSEMBLY —



1. Insert Part Two and Part Three into the openings between the layers of Part One.



2. Valley fold both sides.



3. Completed Star Trek.




Origami WITH Dollar Bills

**Impress people with your money and how well you can...fold it.
(Yes, fold it, not spend it!)**

By using a dollar bill instead of conventional origami paper, you don't have to look further than your wallet to create 15 folded projects with a unique twist. These ingenious origami projects, from a horseshoe crab to a Jedi to an Oriental Dragon, are fun to make and guaranteed to look unlike any you've seen before! Along the way you'll learn amazing facts about United States currency and its rich history, so to speak, including how many times a dollar bill can be folded before tearing and why only green ink is used.




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